

Reverse Transcription Master Mix

Reliable, high-yield cDNA synthesis

- **Easy-to-use one-tube format**
- **Reliable, unbiased cDNA synthesis across a broad range of RNA input concentrations**
- **High sensitivity to low RNA input concentrations**
- **Comparable performance to common reverse transcription reagents**

The Fluidigm® Reverse Transcription Master Mix enables simple, sensitive and unbiased cDNA synthesis of fragments less than 1 kb in length. The master mix contains everything you need for first-strand synthesis including RNase H+ and a blend of oligo-dT and random primers in one tube. This concentrated master mix is ideal for low-quality or low-copy number samples, and it performs well over a wide dynamic range of RNA concentrations.

PRODUCT DETAILS

- Proven performance for transcribing cDNA to use in qPCR with Delta Gene™ or TaqMan® assays
- Concentrated and optimized for small reaction volumes
- Uses both random primers and oligo-dT for virtually no 5'/3' bias
- Convenient single-tube master mix aliquoted into single-use packaging
- Fully compatible with the Fluidigm PreAmp Master Mix

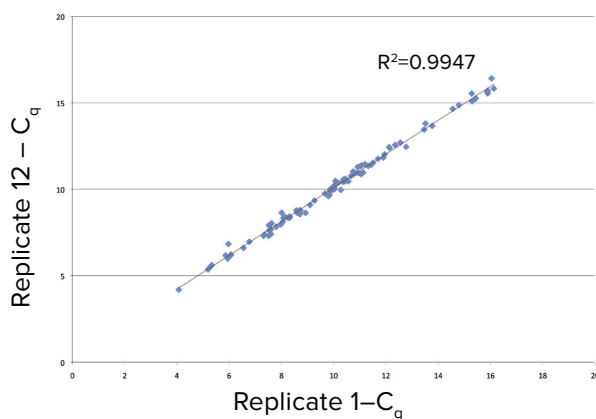


Figure 1. Reproducibility

The Fluidigm® Reverse Transcription Master Mix demonstrates high reproducibility on 12 replicate reverse transcription reactions of seven different RNA samples ($R^2 = 0.9947$). The graph shows a comparison of the first and last replicates in the set.

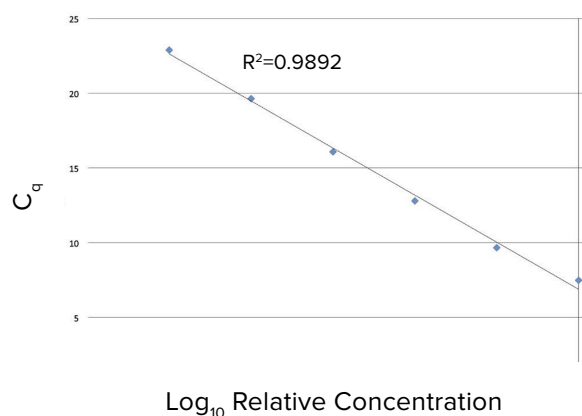


Figure 2. Linearity and dynamic range

The Fluidigm Reverse Transcription Master Mix demonstrates a dynamic range of 6 logs and linearity of C_q values as a function of the input RNA concentration for the ACTB Delta Gene assay ($R^2 = 0.9892$).

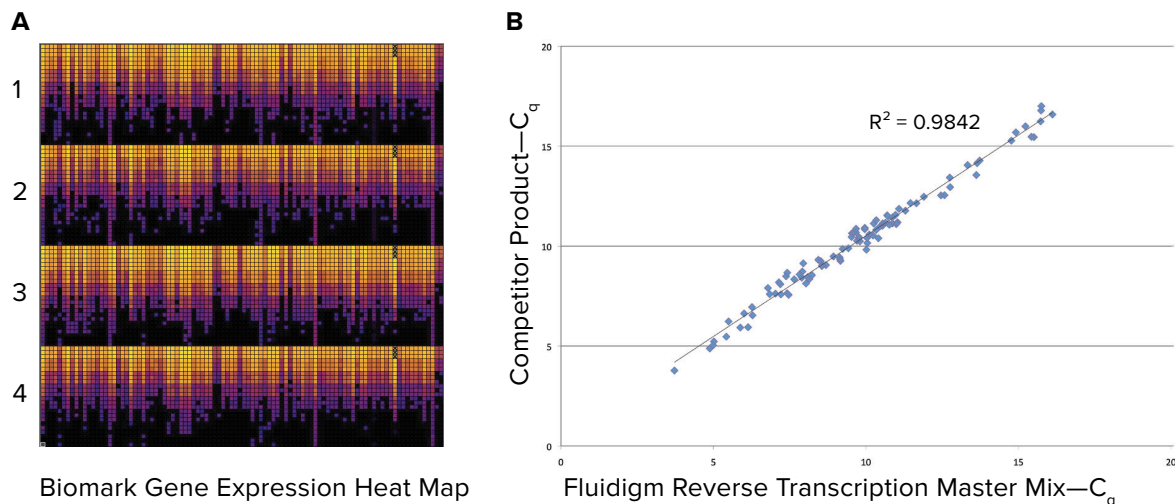


Figure 3. Performance

A) The heat map shows similar expression patterns of samples generated by a serial dilution of input RNA reverse transcribed by the Fluidigm Reverse Transcription Master Mix (1) and competitors' reverse transcription reagents (2, 3 and 4), then analyzed by 96 Delta Gene assays. B) The Fluidigm Reverse Transcriptase Master Mix demonstrates comparable performance to a competitor's reverse transcription reagent.

SPECIFICATIONS

RNA input range	150 ng/ μ L down to <1 pg/ μ L
RNase+	No additional treatment required
Priming scheme	Double-primed with oligo-dT and random primers
Stability/storage requirements	1 year at -20°C
Reactions per tube	96

ORDERING INFORMATION

Product	P/N
One tube Reverse Transcription Master Mix—96 reactions	100-6298
Five tubes Reverse Transcription Master Mix—480 reactions	100-6299

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